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Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	09//448,756
				Filing Date	11/24/1999
				First Named Inventor	Jun KOYAMA et al.
				Group Art Unit	2675
				Examiner Name	P. Bell
				Attorney Docket Number	740756-2070
Sheet	1	of	1		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
PAB		3,576,447		McKenny	04-27-1971	RECEIVED
PAB		4,429,305		Hosokawa et al.	01-31-1984	
PAB		4,890,308		Imai	12-26-1989	OCT 30 2002
PAB		5,170,155		Plus et al.	12-08-1992	
PAB		5,396,084		Matsumoto	05-07-1995	Technology Center 2600
PAB		5,517,543		Schleupen et al.	05-14-1996	
PAB		5,585,815		Nakashima et al.	12-17-1996	
PAB		6,133,897		Kouchi	10-17-2000	

FOREIGN PATENT DOCUMENTS								
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
PAB		JP	04-267563		Yamazaki et al.	09-24-1992		Abst.
PAB		JP	58-158967		Shiyunji et al.s	09-21-1983		Abst.

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiner Initials <sup>5</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	

Examiner Signature	Paul Bell	Date Considered	1/22/2003
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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## Complete if Known

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PAB		US-3,885,196	05/20/1975	Fischer	
PAB		US-4,042,854	08/16/1977	Luo et al.	
PAB		US-5,670,792	09/23/1997	Utsugi et al.	
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## FOREIGN PATENT DOCUMENTS

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
PAB		JP57-100467	06/22/1982	Morozumi		FULL
PAB		JP56-59291	05/22/1981	Ishihara		FULL

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

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PAB		"The IEEE Standard Dictionary of Electrical and Electronic Terms" Sixth Edition, (1996) page 591	

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